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Application No. 10/681,386

Docket No.: 606928008US1

BEST AVAILABLE COPY**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method of managing stored data in a storage management system, the storage management system including a storage manager, a media agent connected to the storage manager, and a primary volume connected to the media agent, the method comprising:
~~in accordance with a first criteria specified in a policy,~~ taking a snapshot of the primary volume in accordance with a predefined policy, the policy comprising one or more parameters for creating a quick recovery volume;
indexing the snapshot by associating respective information with the snapshot;
copying the indexed snapshot to a secondary volume; and
repeating the taking, indexing, and copying steps for a plurality of snapshots, in accordance with ~~at least a second criteria specified in the policy~~ the predefined policy,
wherein the snapshot of the primary volume comprises at least one file that has not been modified since the creation of a previous snapshot of the primary volume.
2. (Original) The method as recited in claim 1, further comprising displaying the snapshots to a user.
3. (Previously Presented) The method as recited in claim 2, wherein the displaying further includes displaying at least one of a respective date of creation of each snapshot, a respective persistence of each snapshot, and a respective location of each snapshot.
4. (Original) The method as recited in claim 2, wherein the displaying includes displaying the snapshots to the user in a hierarchical format.
5. (Original) The method as recited in claim 1, further comprising associating each respective snapshot with a corresponding application.
6. (Original) The method as recited in claim 5, further comprising displaying to a user a respective one of the snapshots in a screen corresponding to the respective application.

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7. (Original) The method as recited in claim 4, further comprising:
enabling the user to select a least one of the snapshots for restoration; and
restoring the at least one snapshot selected by the user.

8. (Previously Presented) The method as recited in claim 2, further comprising
enabling the user to delete a selected one of the snapshots.

9. (Original) The method as recited in claim 1, further comprising deleting a snapshot
after a defined period of time.

10. (Currently Amended) A computer readable medium including computer executable
code for managing stored data in a storage management system, the storage management system
including a storage manager, a media agent connected to the storage manager, and a primary
volume connected to the media agent, the code enabling the steps of:

~~in accordance with a criteria specified in a policy;~~ taking a snapshot of the primary volume

in accordance with a predefined policy, the policy comprising one or more
parameters for creating a quick recovery volume;

indexing the snapshot by associating respective information with the snapshot;

copying the indexed snapshot to a secondary volume; and

repeating the taking, indexing, and copying steps for a plurality of snapshots, in accordance

~~with at least a second criteria specified in the policy~~ the predefined policy.

wherein the snapshot of the primary volume comprises at least one file that has not been

modified since the creation of a previous snapshot of the primary volume.

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11. (Currently Amended) A method for replacing data in a primary volume stored at a first device associated with identified by a first logical unit number with data in a recovery volume stored at a second device associated with identified by a second logical unit number, ~~the recovery volume including a plurality of snapshots of the primary volume~~, the method comprising:

updating a memory to indicate that the primary volume is no longer associated with

identified by the first logical unit number;

updating the memory to indicate that the recovery volume is no longer associated with

identified by the second logical unit number; and

updating the memory to indicate that the recovery volume is associated with identified by

the first logical unit number[[.]].

wherein the recovery volume comprises a plurality of snapshots of the primary volume.

12. (Original) The method as recited in claim 11, wherein metadata associated with primary volume is maintained in association with the first logical unit number.

13. (Original) The method as recited in claim 11, where input and output to both the recovery and primary volumes is suspended during the updating steps.

14. (Currently Amended) A method for periodically copying changing data on a primary volume, the method comprising:

~~in accordance with a criteria specified in a policy~~, capturing a first snapshot of data in a

primary volume in accordance with a predefined policy, the first snapshot being a

block level copy of the data in the primary volume and the policy comprising one or

more parameters for creating a quick recovery volume;

storing the first snapshot;

in accordance with at least a second criteria specified in the policy, monitoring for a change

in any one of the blocks stored in the first snapshot; and

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storing a copy of a particular block when the monitoring determines that there was a change in the particular block from the first snapshot,
wherein the snapshot of the primary volume comprises at least one file that has not been modified since the creation of a previous snapshot of the primary volume.

15. (Original) The method as recited in claim 14, further comprising:

producing a copy of the primary volume using the first snapshot and any copies of blocks that changed after the first snapshot, after at least one block has changed since the first snapshot.

16. (Currently Amended) A copy of a primary volume produced by the steps of:

~~in accordance with a criteria specified in a policy,~~ capturing a first snapshot of data in a primary volume in accordance with a predefined policy, the first snapshot being a block level copy of the data in the primary volume and the policy comprising one or more parameters for creating a quick recovery volume;

storing the first snapshot;

in accordance with at least a second criteria specified in the policy, monitoring for a change in any one of the blocks stored in the first snapshot;

storing a copy of a particular block when the monitoring determines that there was a change in the particular block from the first snapshot; and

producing a copy of the primary volume using the first snapshot and any copies of blocks that changed after the first snapshot, after at least one block has changed since the first snapshot,

wherein the snapshot of the primary volume comprises at least one file that has not been modified since the creation of a previous snapshot of the primary volume.

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17. (Currently Amended) A method of managing stored data in a storage management system, the storage management system including a storage manager, a media agent connected to the storage manager, and a primary volume connected to the media agent, the method comprising:

in accordance with a criteria specified in a policy, taking a snapshot of the primary volume

in accordance with a predefined policy, the policy comprising one or more

parameters for creating a quick recovery volume;

identifying characteristics associated with the snapshot; and

storing the characteristics in an index;

wherein the snapshot of the primary volume comprises at least one file that has not been

modified since the creation of a previous snapshot of the primary volume.

18. (New) The method of managing stored data in a storage management system of claim 1, wherein the one or more parameters for creating a quick recovery volume comprise a destination volume parameter of the quick recovery volume.

19. (New) The method of managing stored data in a storage management system of claim 1, wherein the one or more parameters for creating a quick recovery volume comprise a persistence parameter of the quick recovery volume.

20. (New) The method of managing stored data in a storage management system of claim 1, wherein the one or more parameters for creating a quick recovery volume comprise a data pruning parameter of the quick recovery volume.

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